

YOUR PARTNER FOR METERING AND
MIXING TECHNOLOGY

FILTER



WHO WE ARE – AND WHAT WE STAND FOR

Joined materials – metals, glass, plastics and composites – is omnipresent in our world, countless products are manufactured from them. Bonding technologies have become more and more replaced traditional joining processes during recent decades, and Reinhardt-Technik is recognized as a pioneer of this trend.

What started in 1962 with a team of ambitious engineers has grown over half a century to a leading global supplier of metering and mixing systems with a proven record of innovative solutions on the market.

Our well received core competences are the processing of liquid performance materials for applications of adhesives and sealants, dispensing technology and surface treatment – combined with full systems integration and process control.

As a technology leader of adhesive and sealant processing we belong to J. Wagner GmbH since 2012.

Wagner is a leading manufacturer of surface technologies with more than 1,400 employees worldwide and headquarters in Markdorf near Lake Constance.

- > **Customer orientation**
- > **Partnership**
- > **Innovative products**
- > **Individual solutions**
- > **Automation**
- > **Reliable applications**
- > **Global service**

FILTER

Filters, more precisely fluid filters, are used to withhold solid particles from a gas or liquid flow. The core of this statement already gives a first idea of how widespread the different applications for filters are.

Motor vehicles need oil, fuel and air filters. Activated carbon filters and respirators are widely used in different industries and crafts to clean air, water or protect people from hazardous substances. However, they are also used in medical technology e.g. as Dialyzers – and this is just a small glimpse of the diversity in which filters do their job in almost all areas of life.

Equally diverse are the materials, depending on use, from which filters are manufactured: papers, synthetic fibers, metals, non-woven materials, fiberglass – to name a few. Thus, for example, blood filters are made of a bundle 10,000 to 12,000 fine synthetic hollow fibers, which are embedded in a plastic housing and sealed with a polyurethane potting compound.

In most cases of filter manufacturing different components are bonded, sealed or liquid compounds are metered in potting as well as casting applications. Frame material and filter media are bonded together - while the tightness must be ensured.

Adhesives and sealants need to be very accurately processed and precisely applied in order to ensure an optimum bond and sealing.

Constantly increasing demands for higher productivity and quality require reliable processing equipment and an appropriate quality control.

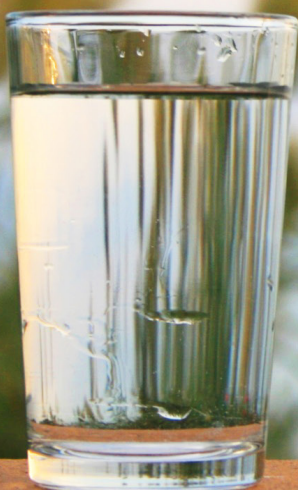
Reinhardt-Technik is therefore your preferred supplier of adhesive and sealant processing equipment in the filter industry.

We offer a wide range of products to process liquid materials in different applications taking the manufacturing environment and local requirements into account.

From simple manual applications to complete solutions with fully automated robot cells with integrated process control – complemented by outstanding service and spare parts availability.

Reinhardt-Technik is also a partner of major adhesive manufacturers, helping to optimize processes and find new solutions for the market – for the benefit of our customers.

Learn more about manufacturing applications and get convinced about our products and system solutions – Made in Germany.



KEY APPLICATIONS

1

Bonding
of filter end-cap

2

Bonding
sealing ring to Filter end-cap

3

In-situ liquid seal (FIGG)
provides foamed and solid gaskets to
filter end-caps and housings

4

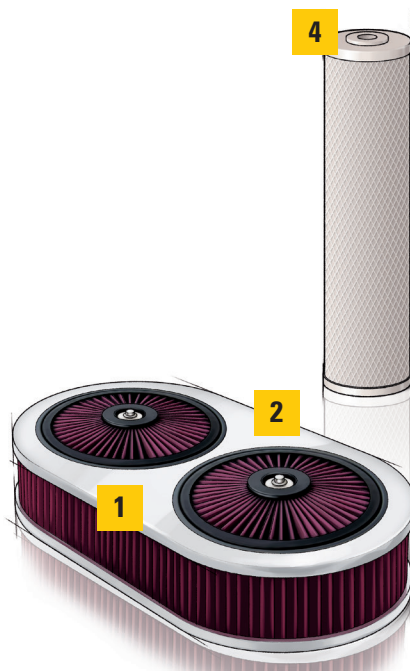
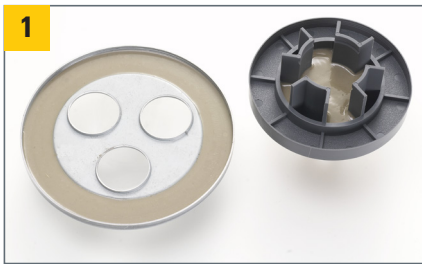
Casting
of filter end-caps (Polymer-endcap)

5

Sealing
of filter side seam

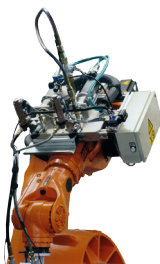
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Bonding
of filter insert to frame



Conti Flow Robot

Configurable gear metering system



Conti Flow Vario

Precision gear metering system



ContiPro

Progressive cavity metering system



7

Molding
of Filterpleats to lip-seal
(soft-solid /elastic or foamed)

8

Dialysator
Casting of hollow-fiber bundle with
housing



eMotionMix

Configurable dynamic mixing system



Vecdos eTwin

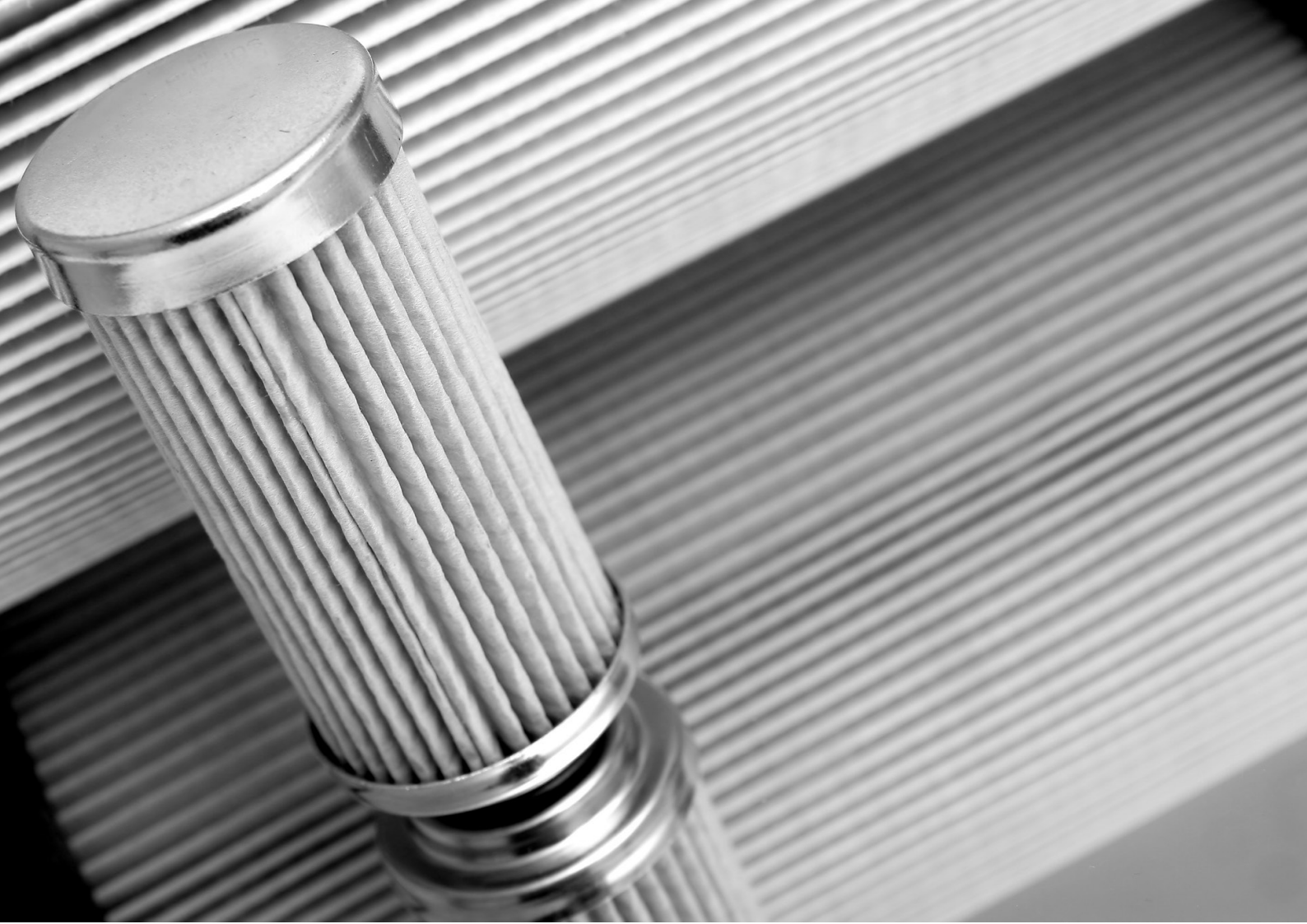
Precision shot meter system



eZbotic

Standardized robot cell





BENEFITS

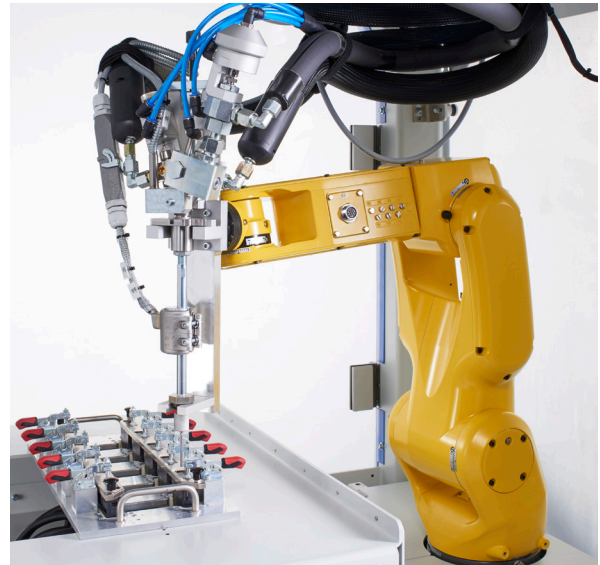
- Innovative solutions help to save material, increase productivity and enhance sustainability.
- Robust 1K and 2K processing system for reliable operation in demanding production environments.
- Easy handling due to operator friendly and ergonomic design
- Optimized design and functionalities based on close cooperation with material manufactures.
- Standardized product portfolio provides on the spotservice and spare parts availability.

AUTOMATION

The challenges of our customers continuously drive our on going innovations and technology developments.

New applications call for new ideas.

Beside our standard product lines we provide customized solutions for various bonding and sealing applications – from product adoptions up to fully integrated robot assembly cells.





YOUR GLOBAL PARTNER IN FILTER MANUFACTURING

- Processing and application of single and multi component adhesive and sealants
- Ambient or temperature conditioned equipment
- Complete systems for manual or fully automatic processes
- Innovative process control and verification