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insight.special

# KÖPP Filter technology A clean business



*Managing Directors Achim Raab and Oliver Köpp take stock.*

**Dear readers,**

*How time flies... 2011 is already behind us. We look now with confidence on 2012. Because the past year has been consistently positive for us.*

*Highlights were certainly the conclusion of the joint venture agreement with the well-known Indian company Roop Polymers Ltd., the successful AEO certification, our ongoing developments and new investments in future technology of freely applied seals in Bovenden and Aachen as well as the considerable extension of our warehousing capacities.*

*And by no means least, we have been able to achieve our ambitiously crammed turnover targets. That gives us the momentum for the impending*

*tasks in the coming year. At the start of the year, focus will for certain be on the start-up of business operations with Roop Koepf Foam Technologies Pvt. Ltd. in India. Here, we anticipate the first orders from India and other Asiatic countries in the beginning of the second quarter of 2012. We are planning a significant expansion of the production capacities at our affiliate company in Romania, KOEPP-ROMANIA S.R.L.. We will thus be able to provide our customers in Western Europe with an even better*

*service than to date with selected cellular rubber grades.*

*Obviously Germany, being our most important market in Europe, will also receive the greatest attention in the new year. It's precisely in the recent months that we have been heavily committed to working on securing fast and reliable turnaround of the products important to our customers, also in the coming year. On the one hand through increased warehousing provision and on the other through considerable investment in the plant and*

*machinery at the Aachen and Bovenden factories. We will also be pursuing this further in 2012.*

*Over and above this we will be concentrating during the coming year on the modernisation and significant expansion of our laboratory and test equipment.*

*All in all, despite prolonged discussions over the future of the Euro and the EC, we are very optimistic that, in concert with your goodselves, valued customers and suppliers, we shall achieve our projected turnover and results for 2012.*

*We would like to thank you for your faith in us and our employees for their commitment and wish you much success, health and happiness for the year 2012.*

**Achim Raab**  
Managing Director

**Oliver Köpp**  
Managing Director



Dr. Ralf Tahhan proudly presents the new 4-C-dosing plant at the Aachen facility.

## FIP(F)G:

### “FIP(F)G – the success story goes on...”

That was our title for the article on freely applied seal technology at the Bovenden facility in two previous issues of **insight**. In principle, we could do that again here as it in fact moves another decisive step further – at the Aachen facility.

The steadily growing acceptance of this technology prompted the management to offer our customers production at our HQ. Due to the second location, we are not only in a position to produce more and faster but are expanding by virtue of the clear logistic advantages for our customers in West Germany and Europe.

*“The FIP(F)G technology is developing rapidly. We’re always up-to-date, continuing to expand our expertise and driving the success of this intelligent technology forward”.*

Dr. Ralf Tahhan  
(Key Account Manager)

## Now also in Aachen.

Sealing foams with elastomer skin

### NEW

“The Aachen facility is perfectly tailored to the needs of our customers. Here we have at our disposal sufficient storage capacity in a new warehouse which, by the way, can be extended even further. Apart from that, we also have available the most modern plant technology”, Dr. Ralf Tahhan, Key Accounts Manager, is pleased to say. In addition to the dosing robots

for one or two-component sealing systems, a RAKU-SKIN plant has been acquired at Aachen. These supply, as required, a 2-component sealing foam in addition to a hard-wearing elastomer skin. Advantage: the foam core and outer skin can be individually matched to the application in terms of hardness and density. This results in many options for adjusting the material to

the required properties – such as hardness, water absorption, chemical resistance, tear strength as well as abrasion resistance. In agreement with the material suppliers, intelligent additives such as bonding agents, UV stabilisers etc. can be incorporated where they’re needed. The internal cell structure thereby remains fundamentally

uninfluenced by such measures and still provides for the softness of the seal.

By virtue of the modular configuration, the production of the classic polyurethane seal and the application of casting and adhesive systems in established grades remains possible. These will certainly continue to constitute the standard system.



# Filter technology

## A clean business



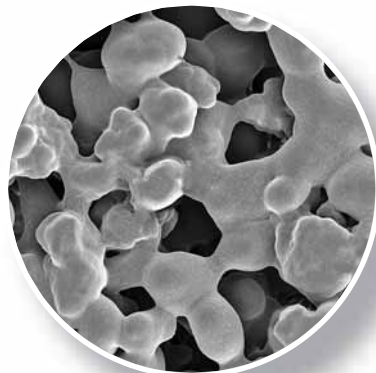
### KÖPP filter technology combines tradition and innovation

As far back as the start of the sixties, the former managing director Werner Köpp wrote the first chapter of this success story in England. Whilst there, he established the important contacts to the manufacturers of VYON® and GURON®. This resulted in the formation of the KÖPP Filtertechnik department in 1965. Since then KÖPP has been providing its customers with individual solutions for fluid filtration, ventilation and extraction, sound absorption and dust filtration.

#### Isabel Kalberg

Support service for the KÖPP Filtertechnik Product segment

*"The extreme versatility of the properties of our filter materials makes just about anything possible. Ideal for tailor made solutions and bags of development potential."*



#### End-to-end positive properties

The VYON® and GURON® filter materials are sintered, porous, low pressure polyethylenes, the polymer particles of which melt together at their contact points. This produces an open pore filter material with outstanding positive properties.

- Filtration grades 5µ - 500µ
- Physiologically harmless
- Temperature resistance at continuous temperatures of -70 °C to +80 °C
- Hydrophobic (standard) and hydrophilic version possible
- High corrosion and chemical resistance
- Low weight
- Favourable cost/benefit ratio
- Environment friendly due to good recyclability

Supplementary to this we can provide you with the following grades of porous, sintered polypropylene with a temperature resistance of -70 to +120 °C as well as porous, sintered PTFE, the temperature resistance range of which is an impressive -150 to +260 °C. PTFE is also water and oil repellent and exhibits impressive anti-adhesion behaviour.





### Open to the most diverse areas of application

VYON® and GURON® are used as filter materials as well as the component parts of a filter system and in the form of a gas-permeable membrane for the aeration of fluid or powdery media. Die cut parts from VYON®, for instance, have proven themselves a millionfold over the years as flame-proof inserts in the vehicle batteries of blue-chip manufacturers.

By means of its porous structure it is likewise outstandingly suited to sound absorption, for example in membrane pumps or compressed air applications. It thus contributes considerably to the reduction of harmful noise pollution.

Modern medical engineering utilises VYON® and GURON® in the most diverse types of analytical equipment, e.g. for the preparation of human and animal DNA. Orthopaedic engineering deploys GURON® moulded components, for example, in joint inserts for highly sophisticated prostheses. Further areas of application for these innovative materials are to be found in the paper industry and likewise in sensor technology.

### Always in form

VYON®-rolls and sheets are particularly well suited as semi-finished products for the low-cost manufacture of strips, cut blanks and die-cut parts. By means of a special welding technique, filter tubes can be produced up to a length of 2 metres.



GURON®-moulded parts are produced exclusively to customers' requirements whereby virtually any shape or form is feasible. Because each part is sintered in a mould, it is possible to manufacture parts with a mean pore size of 5µ to 500µ.

## Wide filter equipment product range

The demands on reliable filter technology are varied. KÖPP has responded to this with a comprehensive product range:

### KÖPP water filters

- Domestic water filter with VYON® depth filter cartridge (filtration grades 80µ or 25µ)
- Back-flushing filter with stainless steel cartridge in robust brass housing (filtration grade 80µ)

### KÖPP special filters

- in brass or gunmetal
- Particularly wide range of use due to choice of 5 different filter cartridges for individual problem solutions
- with washable stainless steel filter sieves for cold and hot water

### KÖPP heating water protective filters

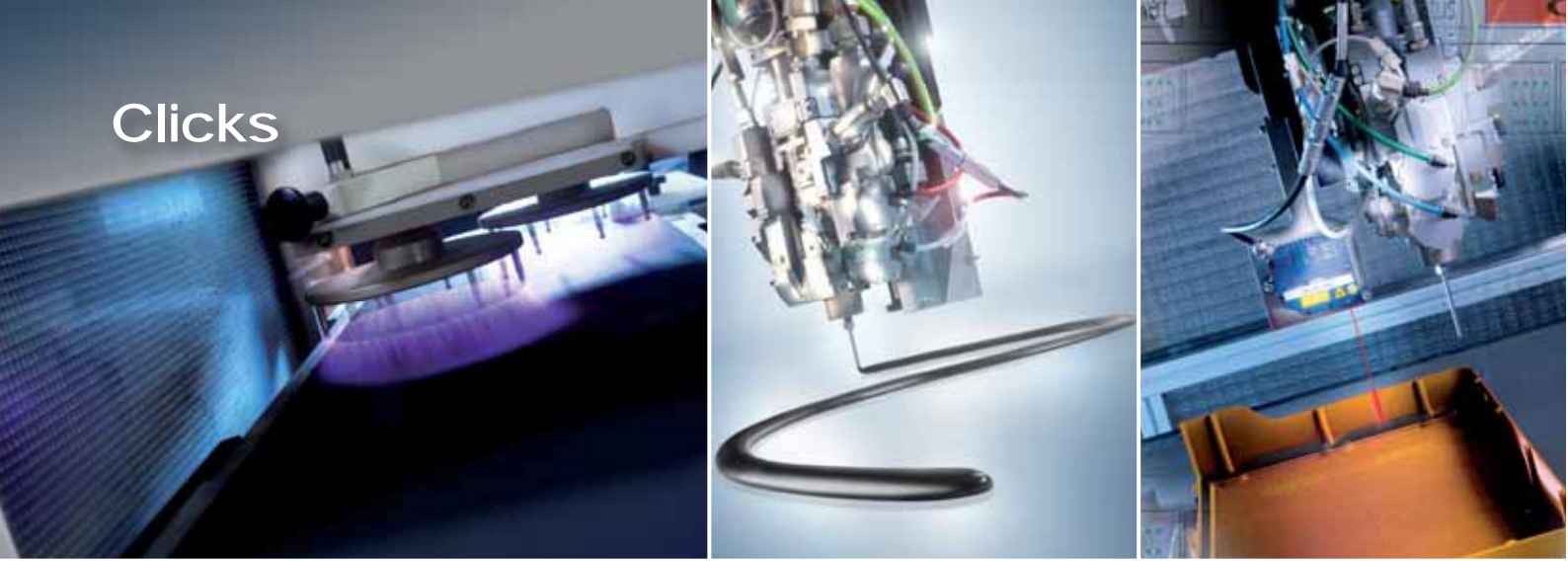
- Safeguards against sludge deposits in heating systems
- High level of dirt pick-up due to large filter surface
- Long service life

### KÖPP magnetic filters

- for magnetic particle retention
- with male/female threads or flanged connection
- with stainless steel filter sieve



Clicks



### A breath of fresh air at KÖPP.

Since the change in the executive, the company has presented itself with a renewed energy which has also been recreated in words and pictures.

Doubtless, dear readers, some strongly expressive photos in the last issues of **insight**. will have caught your eye.

The photographer Jan Michael Hosan has been spotlighting products, technology and people for some two years now. No simple task. Illustrating the rather plain and purely functional work pieces and machinery in an exciting way demands creativity. Flattering accentuation of light, unusual perspectives and the interplay between sharp and soft focus are the emphases here.

# KÖPP inspired.

Jan Michael Hosan

## Technology can look so exciting...

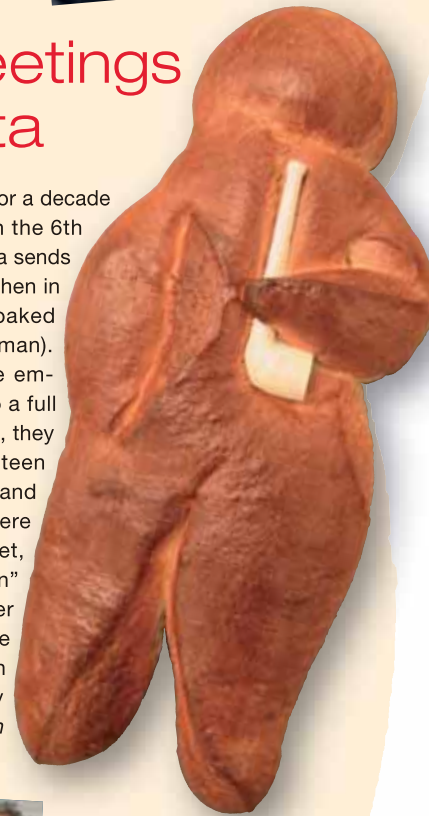




How many Printen and Weck "men" made it to the recipient's homes uneaten?



## Warm greetings from Santa



"The work at KÖPP is always very complex, particularly due to the lighting. That's because the often dark material swallows an incredible amount of light and requires prodigious amount of equipment", says Hosan. "The great thing about KÖPP, however, is that everything's always perfectly prepared when I arrive. The machines are shining, the materials are ready, all the staff have been informed and willingly explain their work to me or the technical details. I'm always perfectly briefed. When I'm photographing at KÖPP, things really smoke."

"The objective has been to visualise the new company dynamic for our customers. Jan Michael Hosan enjoys our complete trust. His pictorial language hits the spot with us precisely", says Marketing Manager Christof Carduck, happily. "Our work with cellular rubber and co inspires us. It has many appealing connotations for us. To put this across to outsiders is difficult, for sure. Jan Michaels Hosan's images reflect our love for the material and for the quality of the products in an imposing and plausible way."

It's been a tradition at KÖPP for a decade now: early in the morning on the 6th of December every year, Santa sends his warmest greetings to Aachen in the form of a huge, freshly baked "Weckmann" (sweet-dough man). And so it was again. All the employees then look forward to a full 750 grams which, if they wish, they can enjoy shortly in the canteen refined with plenty of butter and jam. And of course – where Aachen and Tradition meet, there has to be "Printenmann" gingerbreads. Every KÖPPER receives a selection of these as the classic spicy Printen or with a covering of nutty chocolate – as *partners with profile*, so to speak.



Once in every year – welcome guests at KÖPP: Weckmann and Printenmann





## Achim Raab taking part in the New Delhi half-marathon

A run under quite different climatic conditions was completed by Achim Raab on the 27.11.2011 at one of the world's highest class of half-marathon races in New Delhi.



During the course of his visit to the joint venture company Roop Polymers Ltd, the sport-inspired company head fulfilled his dream of taking part in this renowned race along with 8,368 runners from all over the world under the watchful eyes of 30,000 onlookers. In the end he gained – on top of the clearly unforgettable impression of this event – a respectable 722th place in the overall standings.

KÖPP  
ATG  
WinterLauf  
2011-Team

Together to the finish line. 15 runners face the challenge of the 2011 winter run.

# Racehorses – or office mules?

## KÖPPer don their running shoes

At the end of the year, 15 running enthusiasts wearing the blue KÖPP shirt took part in the traditional ATG sports club winter run (Aachener Turn-Gemeinde).

With 2,500 participants they were in good company as they made their way over 18 long kilometres from Vichtbachtal through Kornelimünster in the Aachen forest to the ATG sports ground having to overcome a 140 metre climb en route. Not something for the impassioned couch potato – this demanded a huge amount of drive and a distinct military-style command over the proverbial “chicken” within. Runners' training paid off here,

which is what the newly formed KÖPP running club started in August. Managing Director, initiator and

sportsman Achim Raab was delighted with the success: “We trained twice weekly – at times even with a professional running trainer. That was well worth it and, above all, it was fun. I'm sure we'll continue running together and participate again next year. Perhaps we can still motivate some of our other colleagues to join in.”

Former managing director Werner Köpp was especially pleased with the high number of participants. With 70 years of membership to the traditional Aachen sports club, he is the most long-standing member.



Free, easy and fleet of foot – running looks like fun.



Drive and fighting spirit was demanded on this challenging route.

## insight. Publishing information

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