# sprimagazine



The customer magazine from Sprimag Spritzmaschinenbau GmbH & Co. KG

www.sprimag.de

## In the beginning, there was the spray gun

Over 100 years ago, Sprimag founder Otto Heinrich developed one of the first spray guns. To this day, Sprimag has been producing its own application technology in regards to painting and coating.

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New employees Sales force buildup in the Surface Coating Division

Spraying, pumping, conveying



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Joachim Baumann and Philippe Nollet, new Managing Directors of Sprimag Spritzmaschinenbau GmbH & Co. KG.

#### Dear Reader,

In this, the final quarter of the year, we can already relax and look ahead to the New Year: For Sprimag, 2011 has been a positive year, and one full of changes. We can record successes in our core activities, such as in systems for coating brake discs. We have also succeeded in gaining a presence in additional sectors of the cosmetics industry. In 2011, we benefited once again from the continued growth in the tube and aerosol can industry. The HIL-70, which was introduced last year, has been very well received by customers, and has already been successfully used in powder applications. Changes have also occurred in the personnel area: Michael Anger stepped down from the management board of Sprimag Spritzmaschinenbau GmbH & Co. KG on

September 30, 2011. Together with

Joachim Sander from AISA he will

continue to devote his energies in his position as manager of

Sprimag Holding GmbH. His successor as manager in charge of Technology and Sales will be Joachim Baumann, who started at this position on October 1, 2011.

# Demand for metal packaging remains high

#### Metpack 2011 sets new attendance record with its 7,100 trade visitors

Once again, Metpack in Essen proved to be the central international meeting point for the metal packaging industry. Visitors from around the world were all specialists in the field and again distinguished the Messe Essen 2011. The positive economic situation was clearly noticeable in the high demand for metal packaging. As early as 2010, with 405,100 tons of aerosol and beverage cans, tubes, flexible packaging and films, about 14 percent more aluminum packaging was produced in Germany alone than in the previous year. The increase in visitor and exhibit numbers at Metpack 2011 further reflected this trend.

coatings. The new technology was well received by the visitors who were excited to experience the working machine in person. The innovations of the HIL-34, which is the basic machine for the interior coating of beverage cans, were evaluated by a large number of industry specialists and received a positive response.

Pre-treatment using plasma technology

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Interesting discussions at Metpack provided new stimuli and encouraged Sprimag in the further development of new technologies to fulfill both current and future market requirements, and to extend its technology leadership.

The next Metpack will take place om May 6 through May 10, 2014 at At Metpack, which took place from Messe Essen - at that time, Sprimag will certainly be on-site again with new innovations.

- Sprimag application technology offers a broad range of products
- "The market follows the 4 basic principle: The best is the enemy of the good"

Interview with Leopold Werdich, managing director of TUBEX

#### Calendar

#### Imprint

#### Anniversaries

Mr. Baumann will be joined in the senior management of Sprimag Spritzmaschinenbau GmbH & Co. KG by Philippe Nollet.

In addition to this, the Surface Coating Division sales team is also being expanded. Starting on October 1, 2011, Axel Bolowich will become the new manager of the Surface Coating Division sales department. You can learn more about our expanded sales team on Page 2 in this issue of Sprimagazine.

We would like to thank you for your confidence in us throughout 2011 and ask you to help support our new staff members.

Joachim Baumann Philippe Nollet

May 10 to May 14, 2011, Sprimag presented its new HIL-70, with which either aluminum tubes or aerosol cans can be coated internally with wet or powder



Sprimag booth at Metpack 2011

#### NEWS + FACTS



Sprimag produces its own presentation video

### Start the film!

In this era of video platforms, it is becoming increasingly easy to distribute videos over the Internet. More and more companies are recognizing this potential and are spreading information about themselves via short product clips or company videos. Sprimag also decided to take this step and produced its own presentation film. It is of primary importance to have its video, which is entitled "Initial contacts", graphically describe in just a few minutes what Sprimag does and who we are. We think that we succeeded very well! Take a look for yourself - the video will soon be available on our website.

» www.sprimag.de

#### FOBA



The new laser marking helps the customers to order spare parts easily.

#### Marking for life

To simplify the reordering of Sprimag replacement parts, the production department at Sprimag has invested in a new laser machine. The FOBA Vario DP20F marks the most widely varying parts of Sprimag application technology with an identification number, and it takes just a few seconds. In this way, Sprimag facilitates the future procurement of replacement parts for its customers, because - even after many years - application technology parts can be identified quickly and be easily reordered.

jochen.quattlender@sprimag.de

#### Satisfied customers

The Sprimag philosophy states that "It is only through satisfied customers that Sprimag will achieve lasting success in the market." In order to live up to this philosophy, we have extended our customer satisfaction metrics since the spring of this year into the area of service operations. After four months, we made an initial assessment: our service team was graded with the highest marks. Because of regular feedback from our customers, we can act quickly and thus always continue to improve.

marketing@sprimag.de

# Expertise in coating and the overall process

As already was the case for numerous installed systems, Sprimag could once again put its expertise in the design of coating processes for mass-produced parts to the test. At mid-year, Sprimag delivered a completely automated system for coating glass parts. Plasma pre-treatment was integrated into this system.

This type of pre-treatment is being used more and more in complete coating systems. The arguments for the use of this procedure are provided by the manufacturer in the article on the right. To test the effectiveness of this procedure in connection with your product,Sprimag provides a modern Applications Center where the individual processes for the coating, as well as the overall process, can be designed and technically verified.

For inquiries regarding the availability of the Applications Center and the test setup, please contact Michael Blankenhorn.

>> Michael.Blankenhorn@sprimag.de

#### PLASMA FOR A PERFECT FINISH

Whenever plastics, metals or glass must have an impeccable look, a particularly good pre-treatment prior to coating is required. Despite the high efforts by the industry, the rejection rate caused by painting over dust particles during production can be from 10 to 15 percent for high-quality applications. The static charging of the surfaces that can occur as a result of the surroundings and the actual manufacturing process leads to a build-up of fine dust and other substances. These are the most common cause of problems that may occur during the coating process.

By using the plasma technology called Openair® that was developed back in 1995 by Plasmatreat GmbH, Steinhagen, and has since been used by industries throughout the world, a pretreatment procedure was implemented during which none of the above problems occur and consequently a substantial reduction in the rejection rate can be attained. The potential-free, atmospheric pressure plasma causes the ultra-fine cleaning and the high activation of material surfaces. The result is not only a particularly strong and long-term stable adhesion of paints, adhesives and other coatings, but also an improved

coating process due to the increased wettability of the substrate after the plasma treatment.

The systems that are based on the nozzle principle work inline at normal atmospheric conditions and are operated solely by air pressure and high voltage. The still widespread use of wet chemicals in the pre-treatment process can be completely eliminated.

As a special feature, the emerging plasma beam is electrically neutral, which greatly increases and simplifies its applicability. Its intensity is so high that processing speeds of several 100 m/ min can be achieved when using a fixed single nozzle. Typical heating of plastic surfaces during the treatment is  $\Delta T < 30$ °C. Among the major advantages of the Openair<sup>®</sup> plasma technology is the high process reliability and quality in the production process, as well as the low costs for primary energy and auxiliary energy during the operation of the system.

Philipp Albertmelcher, Plasmatreat P.AM@Plasmatreat.de



Plasma technology is increasingly being used as a pre-treatment process in complete coating systems

#### SALES FORCE BUILDUP IN THE SURFACE COATING DIVISION

#### **Axel Bolowich**

Sales Manager for the Surface Coating Division

coating facilities since 2009. He also served as a trainer at the Education Center and has trained about 300 employees. We are pleased to welcome Mr. Axel His extensive experience with sales pro-Bolowich, who will be starting in Octo- cesses, coupled with in-depth knowledge of the industry, distinguish Mr. Bolowich as someone who can optimally lead and manage sales at Sprimag.

Division has received additional reinforcement in the person of Mark Höhmann, who has been supporting the sales team in Kirchheim since early September, As early as 1998, Mr. Höhmann was working for Sprimag as a process and applications engineer at the Applications Center and therefore is well-versed in regards to coatings. He gained more experience at Sorg Plasitk in Mexico, where, among his other duties, he managed a coating facility. From 2006, he worked as a project engineer at Industrias KI Mexiko, where his duties included technical responsibility for system concepts. Mark Höhmann recently worked as a segment director for coating,

grinding and decor at Schuberth GmbH in Magdeburg. His many years of experience in the area of coating, as well as his intercultural expertise, are good prerequisites for capably supporting

Division at Corning, Inc., and worked for a plastic injection molding company; at YAC Robot Systems, Inc., he headed the US subsidiary of the robot system integration company. In 2010 he opened a sales office in Cincinnati, Ohio, for Matsumoto US Technologies; this failed due to economic difficulties in the home market of Japan. With his many years of professional experience and his cultural background, he is the ideal partner for Sprimag Inc. in the Japanese market.

ber, 2011, as our new Sales Manager in the Surface Coating Division. Even during his studies in mechanical engineering, he applied himself to the subject of "Fully automated coating processes in the automotive industry"; he could then apply the theory that he had learned as a sales engineer for coating systems at Eisenmann in Holzgerlingen. During a restructuring of the Group in 2007, Mr. Bolowich moved into the Sales Department and actively built it up. Besides the definition and integration of a sales process for the Group, as well as the management of sales activities, regular reporting and support of strategic corporate planning were among his areas of responsibility.

After the successful establishment of the department, Axel Bolowich moved backed into operational sales and has been working as the key account for



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Mark Höhmann Sales Representative in the Surface Treatment Division The sales area in the Surface Treatment



Sprimag customers worldwide.

#### Mark Höhmann

Sales Representative Telephone: +49 (0) 7021 579 -190 mark.hoehmann@sprimag.de

#### Shinji Hagiwara

**Business Development Director**, Sprimag Inc. USA

Since August 1, 2011, Mr. Shinji Hagiwara has been supporting product sales at Sprimag Inc., primarily for the Japanese market. Mr. Hagiwara, who was born and raised in Japan, began his professional career at Central Motor Wheel, one of the largest tire manufacturers in Japan. The company sent him to the US, where he completed his MBA at George Washington University in Washington DC. In addition, Mr. Hagiwara was head of sales for the TV Lens



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# Spraying, pumping, conveying

Sprimag application technology offers a broad range of products

When company founder Otto Heinrich applied for a patent on his spray gun in 1906, not everyone was convinced by the inventor's idea: some thought that the process was perhaps something for painters and printmakers. But the new spraying process established itself in the industry and this success soon led to initial requests for complete painting machines. In 1917, a year before the end

of the war, Otto Heinrich designed an automatic interior painting system for Singewald in Leipzig-Rückmarsdorf for coating cans for food that were made of black sheet metal. Revolution, chaos and inflation during the postwar years initially prevented further development. Otto Heinrich. however, managed to get on his feet again, and on July 31, 1925, he founded Sprimag Spritzmaschinenbau GmbH in Leipzig. A great deal has happened since then in the field of coating technology. Sprimag now manufactures advanced, automated complete systems for coating the most widely varying production parts. In addition to system construction, Sprimag has also gained expertise about the entire coating process and is still continuing to develop and manufacture its own spray guns. One of the first Sprimag models was the S-116 spray gun with only one material and one



air connection. Even the follow-up model, the S-133, which went on the market in 1963, was equipped with two air connections. A special delay design was also integrated, which allowed internal control of the atomizing air, thus eliminating the formation of drops after shutdown.

> In 1987, the S-233 was developed, which is a model that is proving itself even today in the most widely diverse coating applications. Because the piston and the sealing sleeve are made of nonreative PTFE, setting and adjustment is not required. The version with two material connections enabled use with a coat-

different versions for different application areas, can be combined individually with or without manual material flow adjustments. Different sets of nozzles make the S-7 the all-around talent in many areas. A distinctive feature of the S-7 is the quick-connect mechanism:

> On July 31, 1925, Otto Heinrich founded Sprimag Spritzmaschinen GmbH in Leipzig

Because the paint supply - in addition to the spray guns - is receiving a higher and higher priority in application technology, Sprimag is investing in numerous developments in this area. This is because - with the right equipment - faults are avoided

> during the coating process and production costs are reduced. With its product line for supplying coatings, Sprimag covers the entire range, from the smallest amount all the way up to mixing systems. Sprimag designed the 2K/3K mixing system specifically for use in automatic painting facilities. This system enables the processing of paints that have

ing circulation system for the first time.

In the next Sprimag spray gun - the S-333 - new atomizer technology using "HVLP" (High Volume Low Pressure) was used. This can work both with coating circulation as well as with a tap line. Having

Original photo of one of decades of experience in the the first Sprimag spray guns development of

spray guns, Sprimag designed the latest spray gun generation, the S-7, in 2006. This model stands out because of its user-friendly and modular design that provides, when coupled with proven technology, clear advantages over existing spray gun models. The basic body, which is available in

tions for the widest range of applications. The part that conveys air has been separated from the part that

by a single turn, the spray

gun body can be separated

from the rest of the supply

elements, such as the paint

plingthat was further im-

proved at the beginning of

this year is now available

in a two-piece design. The

modular design also offers

suitable combination op-

The quick release cou-

and air hoses.

conveys material, so that the most widely varying fittings can be selected, for example, for flushing valves or the paint-stop function. The paint-stop, quick release coupling is our latest innovation. It was developed with the aim of providing an opportunity for the system operator to change the spray gun without emptying the paint supply. This eliminates the time-consuming rinsing process that must be carried out before changing the spray gun.

The latest model in the Sprimag family of spray guns is the S-7S. It is specifically designed as an external spray gun and is impressive because of a new generation of nozzles with easy handling and optimum spray results. The new generation of nozzles using RP® or HLVP technology (Reduced Pressure or High Volume Low Pressure) provides the best atomizer quality along with air consumption that is reduced by approximately 20 percent. a very short pot life. Along

with the paint supplies and the mixing systems, additional Sprimag application

technology products are coming into use, such as the MP-SP2 diaphragm pump and the pressure regulator. In comparison to other systems, the specially coated interior of the pump provides for optimum rinsing. After the diaphragm pump had become a real bestseller, Sprimag presented its own pressure regulator in 2009. The goal in designing the pressure regulator was to have a combination of function, maintenance and flexibility without making any compromises. As customer inquiries and feedback have confirmed, the pressure regulator has also become a success.

With its automatic coating systems and the matching application technology, Sprimag is constantly striving to optimize the coating process. The innovative spirit of Sprimag's founder, Otto Heinrich, will be a model and an incentive for us as we go forward into the future.

#### INTERVIEW

# "The market follows the basic principle: The best is the enemy of the good"

TUBEX has been one of the leading com- TUBEX was the first company to panies in the cosmetics, pharmaceuticals, food and technical products packaging sector for more than 60 years.

In recent years, TUBEX has established itself as an aerosol can manufacturer and has become recognized across the industry as the market leader. What does the company's director see as the secret of this success?

Motivated and well-trained staff, swift decision-making processes, the courage to try out new things and question the status quo, and customers who trust us.

Over the last ten years, none of the company's competitors has invested so much in new plant technology and infrastructure-related measures.

Do your competitors need to adapt to this in the next few years and cast a jealous eye towards Rangendingen? The market is in perpetual flux and requires the ability to be proactive rather than merely reactive. And it follows the basic principle: the best is the enemy of the good. For TUBEX, this basically means that we have to prove ourselves every day in order to survive, and everybody in the company knows this.

develop powder coatings for internal surfaces in standard production. What do you see as the future of powder coatinas?

We believe strongly in the future of this particularly environmentally-friendly new technology and expect it to further increase it's market share as compared to conventional interior coatings. One aspect certainly providing the "added momentum" for the market is new high-performance powder suppliers.

you expect to see in the production lines of the future?

In addition to optimizing costs for materials and energy consumption, we expect technological advances in printing during the forming and stamping processes.

As a Group company, TUBEX runs additional production

facilities on

different continents. What

expansions are planned for

Currently, we are planning new

particular with regard to

aerosol can production?

sites in Brazil and Russia.

At the moment, we are

experiencing a boom in

all manufacturers are

aerosol can manufacture;

have long delivery times.

What do you think are the

reasons for this situation,

for your company?

which is surely a good thing

completely booked and some

the coming years, in

(exona (exon

What further technical innovations do

» We believe strongly in the future of the internal coating with powder.« Leopold Werdich

ing more important.

TUBEX is the largest employer in Rangendingen, a small location in a rural setting. Has the shortage of skilled labor, which is a widespread problem in Baden-Württemberg, been problematic for you too, and what strategies do you have in place for meeting this potential future difficulty? TUBEX has benefited greatly from our in-house training for skilled workers via apprenticeships and via the dual university system. Furthermore, in some cases, we are already seeing a third generation of employees working for TUBEX, standing testament to the appeal of our company and the area.

fers our customers



LEOPOLD WERDICH, Managing Director of TUBEX Holding GmbH

After undertaking studies in Business Management at Friedrich Alexander Universität in Nuremberg, and Aston University in Birmingham, UK, Leopold Werdich then successfully completed a trainee program at Commerzbank AG in Frankfurt. In 1992, he joined the Schöller Group and was later appointed Commercial Director of Schöller AG in Vienna. Leopold Werdich has been the Managing Director of TUBEX GmbH since 2000, and the Managing Director of TUBEX Holding GmbH since 2009.

#### CALENDAR

**Asia Cantech Conference** Conference for the beverage can industry Ho Chi Minh City, Vietnam October 17 – 20, 2011 www.asia-can.com



ANNIVERSARIES

10<sup>TH</sup> ANNIVERSARY

Sprimag Germany Blankenhorn, Michael » Process Engineer Brucker, Claudia » Technical Draftsperson Mienis, Chyntia » Clerk CC Rasch, Fred » Mechanic Schmid, Simone

» Technical Draftsperson

Schmidt, Albrecht

» Process Engineer

» Documentation

Zebisch, Stephan

Wuhan, China March 21 - 23, 2012 www.worldcanconferences.com

ChinaCan

TUBEX is a pioneer in the manufacturing of aerosol cans - the solvent-free inside powder coating is carried out with the installations of Sprimag.

Sure



NPE

**The International Plastics Showcase** Orlando, Florida, USA April 1 – 5, 2012 Stand 2003 www.npe.org



PaintExpo World's Leading Trade Fair for Industrial Coating Technology Karlsruhe, Germany April 17 – 20, 2012 Hall 2, Booth 2511 www.paintexpo.de

PaintExpo

#### GulfCan **Conference for the Metal Packaging Industry**

Dubai September 2012 www.worldcanconferences.com

#### LatinCan

automated coating

**Exhibition and Seminar for** the Metal Packaging Industry Miami, USA November 2012 www.worldcanconferences.com



25<sup>TH</sup> ANNIVERSARY

Sprimag Germany

40<sup>TH</sup> ANNIVERSARY

Heise, Sebastian » Service Technician

Sprimag Inc.

#### Sprimag Brasil Ltda

Joel Pinto de Miranda » Team Leader Alessandra Branco de Oliveira » Customer Care

Ailson da Silva

» Machine Operator

Sprimag thanks all of these employees for their many years of service and for their long-standing relationship with the company.

Sprimag Germany Niessner, Jochen » Electrician Schiedl Hubert » Service Technician

Friedl, Hans » Mechanic Lang, Elvira » Office Clerk

40 Years of Service at Sprimag: Hans Friedl and Elvira Lang



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