

UPDATE.06

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Welcome



2011 was a very successful year for Gerresheimer thanks to a high volume of orders from customers around the world. Now we are looking forward to investing around 100 million euros in growth

projects that you will also benefit from in 2012. One of our investment focuses is the extension of development and production facilities for medical devices, which is reflected in the lead story about our German plant in Pfreimd. We will also be making significant investments to increase production capacity at the Horsovsy Tyn plant in the Czech Republic, in the Technical Competence Center for medical plastic systems in Wackersdorf (Germany) and in the Syringe Competence Center in Bünde (Germany). In addition to extending our production capacities we will also be driving continuous improvements in quality at all our plants.

Find out more about the latest news and developments in the Gerresheimer world in this issue of *Update*. We hope you'll take a moment to read it.

Jens Kürten

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Medical Plastic Systems

Gerresheimer extends production of medical plastic systems in Bavaria

Gerresheimer continues to invest in the growth market of complex plastic systems for pharmaceutical and medical applications. Production capacity is being extended at the southern German production facility in Pfreimd at a cost of approximately EUR 25 million. High customer demand led to the decision to invest in the construction of a new production building where medical plastic systems will be manufactured in clean room environments with state-of-the-art injection moulding machines. As a result of this project around 130 new jobs will be created in Pfreimd.

"There has been a sharp increase in demand for medical delivery systems which are simple and safe for patients to use. These include injection systems, insulin pens and inhalers. We are increasing our production capacity so that we can drive future growth in this market," commented Uwe Röhrhoff, CEO of Gerresheimer AG.

The Plastic Systems division is now one of the company's fastest-growing divisions. Gerresheimer Medical Plastic Systems produces

insulin pens for diabetics, inhalers for asthma sufferers, lancing devices and disposable laboratory articles for leading pharma and medical technology companies – from the initial design sketches, through tool making and production to packaging and just-in-time delivery.

Inhalers, diabetic supplies such as insulin pens, lancing devices, lancets and disposable laboratory articles are some of the products manufactured in Pfreimd. The plant currently has 550 employees.



GLASS

Tubular Glass / Tubing

Optimum competence networking

Integrated quality management at Gerresheimer Tubular Glass



TUBING

The partnership between the pharmaceutical and packaging industries facilitates the continuous improvement of medical technology solutions. Consequently, each sector has to keep pace with the other's innovations. New testing and diagnostics processes are constantly raising the benchmark, and the packaging industry often assumes a pioneering role in the development of innovative packaging technology for new medications.

Innovative solutions and a robust quality management concept are essential prerequisites for coping with these increasing requirements. In this knowledge, Gerresheimer Tubular Glass has established a new, integrated process concept. Tubular glass production, forming and pharmaceutical filling traditionally follow each other in linear succession. Each sector has extensive know-how in its own field. For example, the tubular glass manufacturer knows the chemical and physical properties of glass and its behavior in all environmental conditions.

Complex interactions

In the next step, know-how focuses on the effects of the forming process and potential changes to the surface of the glass. The pharmaceutical industry has a detailed knowledge of the chemical properties of its medications and medication filling operations.

Usually, too little know-how is transferred along the linear process chain, especially to the next but one stage and, as a result, the complex relationships between all quality factors are not taken into account.

To effectively meet new challenges in the production of primary packaging products it is necessary to optimally network competencies along the entire value chain. Once they are networked, for example, it is possible to align the tube dimensions in the glass production process with the forming parameters and the pharma manufacturer's filling process requirements in a specific packaging project. Gerresheimer Tubular Glass is optimally geared to this approach. The company's production facilities in Germany, Italy, Poland, Mexico, China and the USA have both tubular glass and forming operations. Know-how acquired over a 30-year period is continuously transferred between the 40 countries on all continents to which it supplies its products.

Automated in-line inspections have replaced random sampling

Decisive quality assurance improvements in tubular glass production are achieved by substantially increasing the number of automated in-line inspections. Manual random sampling is no longer performed because subjective factors can never be ruled out in this

type of inspection process. Gerresheimer has doubled the former 4 automated in-line inspections now to 8. In the near future, there are plans to introduce 14 automated inspections covering all key production process parameters.

A SCADA (Supervisor Control and Data Acquisition) System will guarantee the thorough and comprehensive acquisition of the most important measurement data. A new traceability process has also been introduced which can trace tubular glass right back to the individual tube bundle.

Tekion process and clean-to-clean environment

Cosmetic defects caused by glass particles are considerably reduced by the proprietary Gerresheimer Tekion process, both in tubular glass production and in the forming process. The tubular glass dimensions are tested in-line on four axes with the assistance of the Thickometer process, which permits a level of precision of 0.5 microns.

The introduction of a clean-to-clean environment also considerably enhances quality. This involves cooling and packaging operations being performed in a different room to the one where the tubular glass furnace is located, which means that processing and packaging take place in a controlled environment. The objective is to pack products in the same kind of clean room that the customer uses to unpack them.



CONVERTING

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GLASS

Integrated quality management
at Gerresheimer Tubular Glass

Current challenges in tubular glass production demand knowledge
and expertise along the entire supply chain.

TUBING

Glass characteristics/detailed composition
Glass behaviour in all conditions
Shared global experience
Other skills/knowledge ...

CONVERTING

Chemical impact of the converting process
Interaction glass/forming process
«below the surface» set up issues
Other skills/knowledge ...



PHARMA

Drug chemical characteristics
Particularity of the filling process
Other skills/knowledge ...

Moulded Glass

Gerresheimer Essen gets its new energy
management system certified

Gerresheimer Essen is the first of the Gerresheimer Group's production facilities to obtain certification for its energy management system (EMS). The Essen plant was awarded EN 16001:2009 certification at the end of 2011.

The new standard sets uniform EU-wide criteria for structured energy management systems. By implementing the standard, organizations can establish systems and processes which improve their energy efficiency. EN 16001 specifies requirements for an energy management system to enable the development and implementation of a policy and objectives which take into account legal requirements and information about significant energy aspects.

The objective of installing this energy management system at Gerresheimer Essen is to facilitate a systematic and continuous approach to identifying and assessing potential for saving energy so that the appropriate measures can be promptly implement-



ed. This will enable us to achieve long term energy consumption reductions and continuous improvements in energy efficiency.

The next challenges we face are to integrate the new management system in our corporate culture, to ensure that it is used

at all times and to continuously optimize it. Moulded Glass Europe is already planning the next steps which involve the certification of other German production facilities in accordance with EN 16001:2009 in 2012.

GLASS

Moulded Glass

Potential for packaging line optimization

Solutions and services for higher efficiency

The pharma industry is just as much exposed to pressure on margins and the need to be innovative as other sectors. As patents expire, it is essential to have a well-filled pipeline of future blockbusters. At the same time, the health authorities are demanding further reductions of reimbursement rates and tightening the regulatory requirements. In the search for optimization potential, not only products but also processes are increasingly coming under scrutiny. One approach which deserves special consideration is an analysis of overall equipment effectiveness.

Compared with other industries, the pharma sector's overall equipment effectiveness (OEE) is still relatively low. With customers in the pharmaceutical and food & beverage industries, Gerresheimer Moulded Glass is able to directly assess the OEE in both sectors. A benchmark study of 50 pharmaceutical packaging lines revealed considerable differences. In the food & beverage sector, the study measured OEE values of between 30% and 63% (average 44%), while the pharma industry's packaging lines only achieve an OEE of 22% to 39% (average 28%). However, these two sectors have a high comparability level. Packaging volume, packaging equipment, retrofitting rates and interruption frequencies are practically identical. The only difference is that the pharma industry's retrofitting processes are more time consuming as a result of stricter regulatory requirements. It is obvious, therefore, that the pharma industry can benefit from best practices in the food & beverage industry.

Quality improvements

The objectives to increase overall equipment effectiveness are clear. Minimize interruptions and maximize packaging line speed. Reject and breakage rates have to be reduced and high quality of the finished product has to be ensured. All these things are only possible through continuous, professionally supported optimization processes.

Optimizing the process flow

Experience shows that every station in a packaging line has typical weaknesses and that if these weaknesses are eliminated, the line speed increases, the reject rate declines and downtime is reduced to the minimum. At the removal and sorting stages, for instance, the use of suitable pallet sizes and the safe pack configuration can reduce process instability. Optimally adjusted and, when appropriate, coated glass facilitates higher speeds and the reduction of glass metal contact reduces the frequency of cracks and breakages. The same applies to the filling process. In this process, precisely positioned guide rails, the regular maintenance of conveyor belts and perfectly coordinated line speeds ensure problem-free process flows. In the sealing and labeling process, product changes should be coordinated with the bottle supplier so that the bottle specification can be modified if necessary. To ensure closure reliability, the bottle geometry changes should also be taken into account throughout the die service life.

Customer-specific analysis

A detailed analysis, such as the analysis offered by Gerresheimer Moulded Glass, is necessary to ascertain the specific challenges associated with any one packaging line. The results permit customized optimization by adapting successful food & beverage models for the pharma industry. Ideally, equipment manufacturers and suppliers of packaging, labels and closures should also be involved in the optimization process. The sooner Gerresheimer Moulded Glass is involved in the process as a partner, the greater the added value which can be derived from process optimization.

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Tubular Glass America

ISO 15378 Update

A key component of Tubular Glass America's (TGA's) strategy for 2011 was the attainment of ISO 15378 certification at all of its plants. The plant in Queretaro, Mexico, was the first plant to fulfill this commitment by achieving certification in April 2011. Next up were the plants in Morganton, NC and Vineland (Crystal Avenue), NJ because these plants were registered together. The Forest Grove plant in Vineland, NJ will be the last TGA plant to attain ISO 15378.

ISO 15378 is entitled, "Primary Packaging Materials for medicinal products – Particular requirements for the application of ISO 9001:2008 with reference to Good Manufacturing Practices (GMP)". This standard layers the requirements of Good Manufacturing Practices on top of the quality system requirements of ISO 9001. The application of GMP principles in the production and controlling of primary packaging for medical products is crucial to the safety of the patients who consume or apply the medications and pharmaceuticals due to the product's direct contact with the packaging material. Therefore pharmaceutical companies are facing increasing regulatory pressure to control their supply chain. By attaining the ISO 15378 certificate, Gerresheimer can provide additional level of assurance that our internal quality systems are equivalent to our customers' quality systems.



PRODUCTS & SYSTEMS

Tubular Glass

Containers made of cyclic olefins as new option for primary packaging of parenterals



Glass is a packaging material with a very long tradition. The very first glass vessels were produced some 3500 years ago. Due to its inertness and transparency glass has always been the preferred container material for parenteral pharmaceuticals. Increasingly strict drug product requirements and the trend of customized products are, however, revealing the limits of this material. Large proteins can be extremely sensitive to interactions with the primary packaging material. Also, biopharmaceuticals are often quite expensive. So the primary packaging has to have excellent drainability properties to minimize product wastage. Comparatively recently developed materials such as cyclic olefin polymers and especially prefillable syringes made of COP/COC provide new options for the solution of these problems. Borosilicate Type I glass and cyclo olefin polymers/copolymers both qualify as excellent materials for the primary packaging of parenterals.

Nevertheless, none of these materials are perfect. Glass continues to be the preferred primary packaging material for small molecule drugs, drugs with low sensitivity to pH-shift, drugs that are oxidation or water vapor ingress-sensitive. On the other hand, it can be advantageous to package large molecule biotechnological drugs and extremely expensive drugs in cyclo olefin containers. The market for polymer containers will continue to grow as a result of the continuously increasing market share of biotech drugs and the development of innovative application systems, from auto injectors, through needleless systems to highly-customized injectable drug delivery devices. However, no material will replace the other. New packaging materials will simply cater to the specific requirements of some market niches.

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A detailed article by Claudia Petersen on the above subject will be published in the next issue of the Technopharm magazine.



Tubular Glass

2.25 ml needle syringe: a new development by Gerresheimer

With its prefillable 2.25 ml needle syringe Gerresheimer extends the comprehensive Gerresheimer range of sterile and non-sterile syringe systems which are supplied on a ready-to-fill basis to the pharma and biotech industries.

Numerous pharmaceutical manufacturers already changed over from purchasing prefillable syringes as bulk products to purchasing them as ready-to-fill products, i.e. washed, siliconized and sterilized with the tip caps or needle shield on. Gerresheimer markets these products under the RTF® (Ready-to-Fill) brand name.

Gerresheimer's 2.25 ml needle syringe is available with a round or cut finger flange and it is supplied with a 1/2" needle and rigid needle shield. The new product is available in the conventional tub and nest configuration, which means the pharma manufacturers don't have to perform any complex production line modifications. Each tub and nest packaging contains 100 syringes.

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Plastic Packaging

ST600 and ST1000 PET bottles from Zaragoza

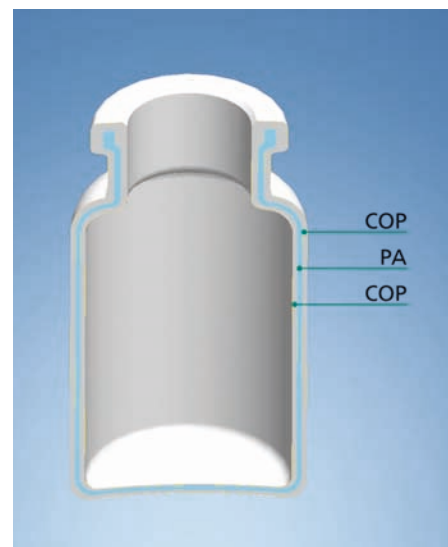
Gerresheimer Zaragoza recently extended its range of PET bottles with new ST 600 ml and 1000 ml bottle sizes. Both articles come with a PP28mm neck finish. The new volumes will be a standard reference in the European market (with some limitations in Spain until 2013). This development completes the range of pharmaceutical PET bottles from 10 ml to 1000 ml and allows Gerresheimer to cover all the applications in this market.



PRODUCTS & SYSTEMS

Plastic Packaging

German Packaging Award for Gerresheimer's new MultiShell™ plastic vials



Gerresheimer's new MultiShell™ plastic vials unite the best properties of plastic and glass in a new high performance container for liquid medications. Now Gerresheimer has received the German Packaging Award 2011 for developing these vials which offer previously unattained levels of safety for parenteral drugs.



The German Packaging Award was launched in 1963 and is under the patronage of the Federal Ministry of Economics and Technology. German Packaging Award winners are automatically nominated for the World Packaging Organization's (WPO) WorldStar packaging award. The awards were presented to the winners at a gala event in Nuremberg on November 9, 2011.

Parenteral medications are usually liquid preparations for administration by injection or infusion. The intense contact between solution and container contact surface challenges the inertness of the container material over shelf life. This is the reason why packaging components are playing an increasingly important role in the development of drug delivery concepts especially for the new generation of biotech drugs. Containers and closures have considerable influence on the stability and safety of the future generation of parenteral medications.

The new MultiShell™ vials have a unique triple-layer structure consisting of a layer of

polyamide sandwiched between two COP (Cyclic Olefin Polymer) layers. COP is an ultrapure polymer which has already proven to have excellent compatibility with biotechnologically manufactured pharmaceuticals that have complex molecular structures. The polyamide layer functions as an oxygen barrier, resulting in a 40 times reduction of oxygen transmission compared with conventional plastic type vials. The absence of heavy metal ions increases the stability of oxidation-sensitive solutions. The inert and unpolar surface minimizes possible interactions. MultiShell™ vials are therefore the ideal packaging for parenteral medications with a wide pH range.

MultiShell™ vials have far higher break resistance than glass vials. The multilayer composite of COP and polyamide even prevents leakage of the solution when the external COP layer is damaged. This significantly enhances safety in handling toxic pharmaceuticals, a feature that single layer plastic vials cannot offer.

The new MultiShell™ vials were developed in line with the ISO standard, which means that standard rubber closures and flanged caps can be used. The materials used also fulfill the stringent requirements for biocompatibility and all pharmacopeia requirements for pharmaceutical packaging made of plastic.

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PRODUCTS & SYSTEMS

Life Science Research

Kimble Chase: High Quality, Chromatography Glassware



Researchers have a source for high quality, chromatography glassware designed to provide convenience, economy and efficiency.



Kimble Chase, the largest manufacturer of laboratory glassware products in the world, offers a portfolio of chromatography glassware that includes columns, tanks, sample vials and its unique solvent handling system, with Ultra-Ware® reservoirs.

For preparative scale-up applications, chromatographers use borosilicate glass CHROMAFLEX® and FLEX-COLUMN®, or polypropylene DISPOSAFLEX® chromatography columns. Columns are supported with available fittings, flow adaptors and packing reservoirs. For analytical separations, Kimble Chase manufactures glass gravity columns in several configurations along with reservoirs and adaptors. For custom chromatography columns, the Custom Glass Shop at Kimble Chase offers design and fabrication services.

Kimble Chase offers optically clear, ruggedly durable TLC Developing Tanks in several configurations, including rectangular and cylindrical. Microcaps are ingenious borosilicate glass capillary tubes designed for precise TLC plate spotting. Other accessories include TLC reagent sprayers, a plate streaker and labeling templates.

Kimble Chase offers Ultra-Ware® HPLC Mobile Phase Handling Systems to improve retention-time reproducibility and baseline stability by reducing contaminant background noise levels. These airtight and chemically resistant systems eliminate exposure to ambient air contaminants while maximizing the effectiveness of helium sparging. The plastic safety coating used on Ultra-Ware® reservoirs minimizes photochemical degradation of the mobile phase by blocking virtually all ultraviolet radiation below 385 nanometers. The systems provide completely integrated filtration, sparging/degassing and delivery of solvents. Reservoirs, with their patented conical bottoms, are available in sizes ranging from 250 ml to 20 liters.

For chromatography sample management, Kimble Chase offers chromatography and sample storage vials in various styles, with attached closures, printed volume measurement lines, and closures with multiple cap and liner combinations in a choice of materials. Kimble Chase's vials are manufactured in USA-based, ISO-9001 compliant facilities.

Kimble Chase Glass Chromatography Products are available worldwide from multiple manufacturing facilities located in the US, Europe and Asia.

Contact Kimble Chase LLC

US and Canada: 1-888-546-2531
(extension 1, toll-free)
International: 1-856-692-8500
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**About Kimble Chase LLC:**

Kimble Chase Life Science and Research Products was formed in July 2007, as a result of a joint venture formed from specific operations of Thermo Fisher Scientific and Gerresheimer Glass, Inc. The company is dedicated to the design, manufacture and distribution of a full range of reusable, disposable and specialty glassware for pharmaceutical, chromatography, environmental, petrochemical, life science, government and academic laboratories.

PRODUCTS & SYSTEMS

Plastic Packaging

New vision systems in Vaerloese

Gerresheimer Vaerloese, a Danish company in the Gerresheimer Group, which produces the Duma® and Dudek™ plastic containers, has installed and qualified a vision based inspection system for pharmaceutical containers. The new system for the injection blow molding lines has a capacity of 4,000 containers/hour. The inspection system can handle

eight different bottle variants with exactly the same accept/reject level.

All plastic containers with black spots are sorted out after their base, sides and neck have been inspected by a total of 6 digital cameras. With the new vision system the leak tester is now capable of identifying holes down to a size of 0.2 mm.



CUSTOMIZED SOLUTIONS

Medical Plastic Systems

Gerresheimer Werkzeug- und Automatisierungstechnik is one of the "Excellence in Production" category winners

Following up on its success in 2009, Gerresheimer Werkzeug- und Automatisierungstechnik GmbH (in future Gerresheimer Werkzeugbau Wackersdorf GmbH) again scored top marks in the "Excellence in Production" German tooling award. Of the 291 companies that applied to take part, only 7 reached the final. The specialists from the Wackersdorf facility, which is part of Gerresheimer's Medical Plastic Systems division, came first in the "Internal mold maker with less than 100 employees" category.

Gerresheimer Werkzeug- und Automatisierungstechnik GmbH is one of the best mold engineering companies in the German-speaking regions of Europe. The Wackersdorf specialists triumphed over a very strong field of competitors. The judges evaluated the entrants according to a list of criteria that had been specifically developed for mold engineering on the basis of the proven EFQM quality management model. They included financial results (20 %), customer-specific results (10 %), product-specific results (5 %), processes (20 %), resources (25%), organization (15 %) and management (5 %). Teams of experts visited the companies to perform on-site audits of financial results, process efficiency and effectiveness and to assess their technical and organizational strengths.

In their talks with the employees of Gerresheimer Werkzeug- und Automatisierungstechnik GmbH, and in their analyses of the

data and facts, the jury identified a series of special strengths. One of these was the company's clear and detailed strategy and the employees' firm orientation on this strategy. Excellent organization permits a high number unmanned sink erosion shifts and considerably reduces the number of rush jobs. The auditors were also impressed by the company's resource handling, the high degree of production automation, its excellent qualification matrix and the high level of employee motivation. They also gave a positive rating to the high employee suggestion rate. Outstanding time efficiency in every area is another outstanding achievement that helped Gerresheimer Werkzeug- und Automatisierungstechnik to achieve the highest score. On the customer side, satisfaction levels are very high, the company integrates customers in the engineering process very early on and it has

excellent adherence to deadlines. The tools that are produced are highly complex with extraordinarily low tolerances.

The awards, which are sponsored by the RWTH Aachen University's Tooling Laboratory (WZL) and the Aachen Fraunhofer Institute for Production Technology (IPT), were presented in 2011 for the eighth time. Representatives of industrial and engineering associations, the scientific, business and political communities formed the expert jury. All tool and mold manufacturing companies in Germany, Switzerland and Austria are eligible to apply for the German Tooling Award. A differentiation is made between independent companies ("external mold engineering") and departments within a company ("integrated mold engineering"), and between companies with more than or less than 100 employees.



Tool manufacturing at Wackersdorf at a glance

- Precision tools with accuracy in the micrometer range
- 60 staff members
- State-of-the art CNC machines and systems: die sinking machines, jig grinding machines and HSC milling machines

Mold technologies:

high-cavity injection molds, multi-component molds, rotary table molds, stack molds, hot runner injection molds, insert-molding, in-mold decoration

PEOPLE

**Tubular Glass**
Stephan Arnold
 new Senior Vice President
 Global Tubing

As of December 1, 2011, Stephan Arnold is new Senior Vice President Tubular Glass Global Tubing and General Manager of the Tubing Plant in Pisa (Italy). He is taking over from Claudio Zuccolotto who left the company. Stephan Arnold joined Gerresheimer Glas AG in 1997 as Divisional Controller. From 1998 to 1999 he held the function of Business Development Manager before transferring to Bünde as General Manager Tubular Glass, a position which he held from 1999 to 2002. After that Stephan Arnold was General Manager at Gerresheimer Essen (Germany), Moulded Glass.

**Moulded Glass**
Dr. Jürgen Unruh
 new General Manager
 at Gerresheimer Essen

As of December 1, 2011, Dr. Jürgen Unruh is new General Manager in the Moulded Glass plant Essen. He is taking over from Stephan Arnold. Dr. Jürgen Unruh was previously Production Director at Böhler Schweisstechnik Deutschland GmbH in Hamm. Prior to this, he held various functions at the RAG Aktiengesellschaft's sites in the Ruhr region.

**Moulded Glass**
Jürgen Gossmann
 new General Manager
 Beijing Glass Co. Ltd.

As of February 23, 2012 Jürgen Gossmann will be General Manager Beijing Gerresheimer Glass Co. Ltd. (China), Moulded Glass. Jürgen Gossmann joined Gerresheimer Essen GmbH as Head of Production Scheduling and Logistics in April 2000. He also held the function of Head of Central Production Scheduling and Logistics for Gerresheimer Tettau GmbH, Gerresheimer Essen GmbH, Gerresheimer Lohr GmbH and Gerresheimer Momignies S.A.

**Moulded Glass**
Yvan Tavernier
 new Senior Vice President
 Moulded Glass USA

Yvan Tavernier is new Senior Vice President Moulded Glass USA, based in Millville, New Jersey. He joined Gerresheimer in 2005 as General Manager Moulded Glass in Momignies, Belgium. Prior to that he worked for several years as Plant and Manufacturing Manager at BP Solvay (BP Lavera) in France and held similar functions at other companies.

**Moulded Glass**
Sylvain Noël
 new General Manager
 in Momignies

On November 2011 Sylvain Noël took over from Yvan Tavernier as the new General Manager Moulded Glass in Momignies, Belgium. He was previously Plant Manager at the VYGON GROUP, Médical's kit in France after gaining 14 years' experience as Plant Manager for various employers (including Packing House, Ontex Group and Cartonnerie de Ländelle).

**Plastic Packaging**
Eduardo Ruiz
 new Managing Director
 in Zaragoza and Valencia

Eduardo Ruiz is the new Managing Director of Plastic Packaging at the Zaragoza and Valencia (Spain) sites. He took over from Juan Carlos Ruiz on November 15, 2011. Eduardo Ruiz has been with Gerresheimer since January 2008. Most recently he was responsible for defining the purchasing strategy and the supply chain for Plastic Packaging in Europe as the Business Unit Purchasing Manager. Prior he was Materials and Customer Care Center Manager at Gerresheimer Plastic Packaging Spain. Before he joined us, he held the position of Financial Controller and Materials Manager at EDP S.A.

NEWS ROUNDUP

Annual Report 2011
**Substantial revenue growth in
 the 2011 financial year**

Gerresheimer AG has closed the 2011 financial year with strong growth in revenue. "We aim to achieve further growth in 2012, especially with our products for the safe and simple administration of medications. Expansion of our business in the emerging markets will be another focus," said Uwe Röhrhoff, CEO of Gerresheimer AG at the balance sheet press conference on February 8, 2012.

In the 2011 financial year, revenues increased to EUR 1,095 million. Assuming constant exchange rates, growth in revenue was 7.8 percent. This positive revenue development was particularly evident in the company's core business of pharmaceutical primary packaging products and medical devices made of glass and plastic. Investments of around EUR 100 million are scheduled for 2012.

A full version of the new annual report has also been published on our website. Click <http://annualreport2011.gerresheimer.com> to view it.



WEB & EVENT

Pharmapack Paris:

Comprehensive range of primary packaging products and medical devices



Gerresheimer is presenting its entire range of products for the pharma and health industry at Pharmapack in Paris on February 15 and 16 (booth 133). Its exhibition concept focuses on innovative solutions that meet the increasingly challenging requirements of the health market with regard to quality and safety. The highlights include the award-winning MultiShell™ plastic vials for parenteral medications, the COP ClearJect™ syringes and RTF® syringe systems, Duma® Twist-Off OneLiner® closures and diverse inhalers, pen and diagnostic systems.



Close collaboration and dialogue

By continuously extending its range of plastic containers for injectables (MultiShell™ and ClearJect) and user-oriented syringe accessories such as TELC, an extra-safe closure system, Gerresheimer is able to offer customers one of the most comprehensive ranges of products in the market. "Close collaboration and dialogue with our customers enables us to drive the development of user-oriented solutions," said Claudia Petersen, Director Business Development Gerresheimer Tubular Glass.

Advice on improving efficiency

Gerresheimer is famous for its high quality pharma glass containers. The comprehensive range of products includes injection and infusion bottles, droppers and tablet jars in a variety of designs, shapes and sizes in glass categories I, II and III. It also provides advice and services to improve the efficiency of customer production lines so that they can satisfy current pharmaceutical industry productivity requirements. For example, filling and packaging systems have to operate at optimum speed with minimum downtime. Detailed analyses and the application of experience gained in the food sector perceptibly improve overall equipment effectiveness (OEE).

All services from a single source

The Gerresheimer product portfolio also includes drug delivery and diagnostic systems, as well as plastic medical technology products. The company additionally provides a comprehensive range of services from one single source: from initial design sketch, through tool engineering, automation technology and production to packaging and international logistics.

The best properties of plastic and glass

The innovative MultiShell™ vials unite the best properties of plastic and glass in a new,

high quality container for liquid medications. The vials have a unique triple-layer structure consisting of a layer of polyamide sandwiched between two COP (Cyclic Olefin Polymer) layers. They are far more break-resistant than glass vials. Gerresheimer received the German Packaging Award in November 2011 for the development of the Multi-Shell™ plastic vials.



Preservative-free dropper bottles

At Pharmapack Gerresheimer Plastic Packaging will introduce a new solution for preservative-free dropper bottles. We are looking forward to seeing you at booth 133.

WEB & EVENT

The Gerresheimer Vision, Mission and Values are now online



The Gerresheimer Group does not view itself as a loose affiliation of 45 production facilities in 14 countries, but as a single entity, as One Gerresheimer. To facilitate a shared understanding of One Gerresheimer, we have to all share the same vision, mission and values.

After ten years of extensive changes within the organization, we have defined this vision more precisely and continued to develop our mission, which is the path we will take to achieve our vision. We have also established

five core values which apply throughout the group. The new vision, our mission and our five values have been discussed in many different forms and they are gradually being filled with life in the Gerresheimer world and work processes. We will be busy ensuring that the vision, mission and values become firmly and permanently anchored in our organization for some time to come.

Our vision puts the focus on the people who work at Gerresheimer – the people who drive our company's progress. Here it is:

Gerresheimer will become the leading global partner for enabling solutions that improve health and well-being. Our success is driven by the passion of our people.

The mission statement defines five core values which will help us to achieve our vision. They are Integrity, Excellence, Innovation, Responsibility and Teamwork.

Further information about this subject can now be found on our website. Click here: www.gerresheimer.com/en/company/vision-mission-values.html

GERRESHEIMER

EVENT CALENDER

1. HALF OF 2012

**FEBRUARY 08, 2012**

Balance Sheet Press Conference 2011
Düsseldorf, Germany

FEBRUARY 14 – 16, 2012

MDM West Anaheim, CA, USA

FEBRUARY 15– 16, 2012

Pharmapack Paris, France

MARCH 11– 15, 2012

Pittcon, Orlando, FL, USA

MARCH 13– 15, 2012

Medtec Europe, Stuttgart, Germany
Landesmesse Stuttgart, Stand 4759

MARCH 13– 14, 2012

PDA Parenteral Packaging Conference
Berlin, Germany

MARCH 15– 16, 2012

Pre-filled Syringes Forum
Philadelphia, PA, USA

MARCH 26– 29, 2012

ArabLab, Dubai, UAE

APRIL 16.– 17, 2012

PDA Annual Meeting, Phoenix, AZ, USA
JW Marriot Desert Ridge Resort

APRIL 25– 27, 2012

API / Interphex, Hefei, China
Hefei Binhu International Exhibition Center

MAY 22– 25, 2012

Koreapack, Seoul, Korea
KINTEX

MAY 22– 24, 2012

MDM East, Philadelphia, PA, USA
Pennsylvania Convention Center

MAY 29– 31, 2012

FCE Pharma, Sao Paulo, Brazil
Transamerica Expo Center

MAY 29– 31, 2012

Beautyworld ME, Dubai, UAE
Expo Center

JUNE 18 – 22, 2012

Achema
Frankfurt, Germany

JUNE 26– 28, 2012

CPHI China, Shanghai, China
Shanghai New International Expo Center



Our broad Duma® Twist-Off product range

- | Child-resistant & senior-friendly closure
- | Duma® OneLiner® closure
- | Round & square containers
- | Camera inspection systems & automated handling equipment



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